AMENDMENTS TO THE CLAIMS

What is claimed is:

1. (Currently Amended) ~~The~~ A method comprising:

generating source code ~~corresponding to~~from a block diagram model; and

providing a hypertext link in a listing of the generated source code to associates an element of the generated source code with an element of the block diagram model.

2. (Previously Presented) The method of claim 1 further comprising:

displaying the source code and the hypertext link on a display;

receiving input from a user representing a selection of the hypertext link; and

displaying to the user at least a portion of the block diagram model including the element of the model associated with the hypertext link.

3. (Original) The method of claim 2, wherein displaying to the user at least a portion of the block diagram model comprises displaying the associated element in a highlighted fashion.

4. (Previously Presented) The method of claim 1, wherein the associated element in the generated source code is a commented reference to a block in the block diagram model.

5. (Previously Presented) The method of claim 1, wherein the associated element in the generated source code is a variable reference in an operative code section.

6. (Original) The method of claim 1 wherein the hypertext link is Standard Generalized Markup Language (SGML).

7. (Original) The method of claim 1 wherein the hypertext link is Hypertext Markup Language (HTML).

8. (Previously Presented) The method of claim 5 wherein the hypertext link is Extensible Markup Language (XML).

9. (Previously Presented) The method of claim 4 wherein the commented reference to a block comprises a character string identifying a path to a file providing information relating to a section of the block.

10. (Currently Amended) A system comprising:

means for generating source code ~~corresponding to~~from a block diagram model; and

means for providing a hypertext link in a listing of the generated source code that associates an element of the generated source code with an element of the block diagram model.

11. (Previously Presented) The system of claim 10 further comprising:

means for displaying the source code and the hypertext link on a display;

means for receiving input from a user representing a selection of the hypertext link; and

means for displaying to the user at least a portion of the block diagram model including the element of the model associated with the hypertext link.

12. (Previously Presented) The system of claim 11, wherein the means for displaying to the user at least a portion of the block diagram model comprises displaying the associated element in a highlighted fashion.

13. (Previously Presented) The system of claim 10, wherein the associated element in the generated source code is a commented reference to a block in the block diagram model.

14. (Previously Presented) The system of claim 10, wherein the associated element[[s]] in the generated source code is a variable reference in an operative code section.

15. (Previously Presented) The system of claim 10 wherein the hypertext link is Standard Generalized Markup Language (SGML).

16. (Previously Presented) The system of claim 10 wherein the hypertext link is Hypertext Markup Language (HTML).

17. (Previously Presented) The system of claim 16 wherein the hypertext link is Extensible Markup Language (XML).

18. (Previously Presented) The system of claim 13 wherein the commented reference to a block comprises a character string identifying a path to a file providing information relating to a section of the block.

19. (Currently Amended) A computer program product residing on a computer readable medium having instructions stored thereon which, when executed by the processor, cause the processor to:

generate source code ~~corresponding to~~from a block diagram model; and

providing a hypertext link in ~~the~~ a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model.

20. (Original) The computer program product of claim 19 wherein the computer readable medium is a random access memory (RAM).

21. (Original) The computer program product of claim 19 wherein the computer readable medium is read only memory (ROM).

22. (Original) The computer program product of claim 19 wherein the computer readable medium is hard disk drive.

23. (Currently Amended) A computing system comprising:

a processor and

a memory,

wherein the processor and memory are configured to generate source code corresponding to a block diagram model~~;~~ and ~~providing~~ provide a hypertext link in a listing of the generated source code to associate an element of the generated source code with an element of the block diagram model.

24. (Currently Amended) The ~~processor and memory~~ system of claim 23 wherein the processor and the memory are incorporated into a personal computer.

25. (Currently Amended) The ~~processor and memory~~ system of claim 23 wherein the processor and the memory are incorporated into a network server capable of Internet communication.

26. (Currently Amended) The ~~processor and memory~~ system of claim 23 wherein the processor and the memory are incorporated into a single board computer.

27. (Currently Amended) A method for generating a document having information about source code associated with a graphical model and providing a hyperlink referencing an element of the graphical model in the document, the method comprising the steps of:

providing source code identifying an element of a graphical model;

generating a document comprising information about the source code; and

providing, in the document, a hyperlink referencing the element of the graphical model, wherein the graphical model is a block diagram model.

28. (Previously Presented) The method of claim 27 comprising selecting the hyperlink to one of display or identify the referenced element in the graphical model.

29. (Previously Presented) The method of claim 27 comprising providing the hyperlink at a location in the document having information about a portion of source code identifying the element of the graphical model.

30. (Previously Presented) The method of claim 27 wherein a portion of the document comprises a markup language.

31. (Currently Amended) ~~The~~ A method comprising:

generating source code ~~corresponding to~~ from an executable block diagram model; and

generating hypertext links in a listing of the generated source code in order to associate ~~associating~~ elements of the source code with elements of the executable block diagram model.

32. (Previously Presented) The method of claim 31 further comprising:

displaying the source code and hypertext links on a display;

receiving input from a user representing a selection of one of the hypertext links; and

displaying to the user at least a portion of the executable block diagram model including an element of the model associated with the hypertext link.

33. (Previously Presented) The method of claim 31, wherein at least one of the associated elements in the generated source code is a commented reference to a block in the executable block diagram model.

34. (Previously Presented) The method of claim 31, wherein at least one of the associated elements in the generated source code is a variable reference in an operative code section.

35. (Previously Presented) The method of claim 1, wherein the step of providing comprises replacing an element in the source code listing with the hypertext link.